

What is claimed is:

1. An energy source for power generation, comprising:
one or more solid material sources effective for producing a peroxide energy source;
and,
5 one or more solvents effective for liquefying the one or more solid material sources.
2. The energy source of claim 1, wherein the one or more solid material sources
comprise a solid peroxide.
3. The energy source of claim 2, wherein the solid peroxide is selected from the group
consisting of peroxide, superoxide and combinations thereof.
- 10 4. The energy source of claim 1, wherein the solid material is selected from the group
consisting of sodium peroxide, potassium peroxide, lithium peroxide, potassium
superoxide, urea peroxide, sodium perborate, peracetic acid, peracetic salt, persulfate
acid, persulfate salt, peroxide adduct, percarbonate acid, percarbonate salt and
combinations thereof.
- 15 5. The energy source of claim 4, wherein the solid peroxide is selected from the group

consisting of sodium peroxide, potassium peroxide, potassium superoxide and combinations thereof.

6. The energy source of claim 5, wherein the solid peroxide comprises potassium superoxide.

5 7. The energy source of claim 3, wherein the one or more solvents are selected from the group consisting of water, polar organic alcohols, polar organics, and combinations thereof.

8. The energy source of claim 7, wherein the one or more solvents are selected from the group consisting of water, propylene glycol, ethanol, methanol, isopropanol and
10 combinations thereof.

9. The energy source of claim 8, wherein the one or more solvents comprises water.

10. A power generator comprising the primary energy source of claim 1.

11. A primary power generator comprising the energy source of claim 4.

12. A process for releasing energy in an energy source, comprising the steps of:
providing an energy source for power generation having one or more solid material sources effective for producing a peroxide energy source and one or more solvents effective for liquefying the one or more solid material sources; and,
5 solubilizing the one or more solid material sources in the one or more solvents to create a liquified peroxide effective for imparting energy for power generation.
13. The process of claim 12, wherein the solid material is selected from the group consisting of peroxide, superoxide and combinations thereof.
14. The process of claim 12, wherein the solid material is selected from the group
10 consisting of sodium peroxide, potassium peroxide, lithium peroxide, potassium superoxide, urea peroxide, sodium perborate, peracetic acid, peracetic salt, persulfate acid, persulfate salt, peroxide adduct, percarbonate acid, percarbonate salt and combinations thereof.
15. The process of claim 14, wherein the solid peroxide is selected from the group
15 consisting of sodium peroxide, potassium peroxide, potassium superoxide and

combinations thereof.

16. The process of claim 15, wherein the solid peroxide comprises potassium peroxide.

17. The process of claim 12, wherein the one or more solvents are selected from the group consisting of water, polar organic alcohols, polar organics, and combinations thereof.

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18. The process of claim 17, wherein the one or more solvents are selected from the group consisting of water, propylene glycol, ethanol, methanol, isopropanol and combinations thereof.

19. The process of claim 18, wherein the one or more solvents comprises water.

10 20. A power generation product produced by the process of claim 12.